

WHAT IS CLAIMED IS:

1. A machine tool apparatus provided with coolant supply passages for supplying a coolant in tools or tool mounts for mounting the tools, the apparatus comprising:

an oil coated water droplet generator/mixer being connected to the beginning end of the coolant supply passages, the oil coated water droplet generator/mixer including an oil atomizing chamber for atomizing oil introduced from the outside by an air stream, water droplet generation chambers for generating oil coated water droplets having oil films on the surfaces of the water droplets generated by dropping water introduced from the outside utilizing the air stream containing the atomized oil generated in the oil atomizing chamber, and a top nozzle for discharging the oil coated water droplets generated in the water droplet generation chambers is connected, wherein

a spray port having a smaller inner diameter than the inner diameter of the coolant supply passages is connected to the termination end of said coolant supply passages.